The

8029 - 8085

NOTE
BOOK

No. 35

WESTAB

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Arthur Cronquist
New York Botanical
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U.562

F 95, R. 19 E., S. 32

3869

8029-August 1, 1955
Open, granitic, gentle slopes atop the Beartooth Mts., immediately adjacent to the Wyoming state line, 25 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 32. Elev. 10,500 feet. Flowers yellow.

Solidago multiradiata Ait.
var. scopulorum Gray

(35)

Solidago multiradiata

8030 - August 1, 1955
Same place as 8029.
Flowers yellow. Leaves
glaucous.

Potentilla diversifolia Lehm.

(11) Potentilla diversifolia

8031 - August 1, 1955

Same place as 8029.
Flowers blue, now all withered, but evidently small.

Myosotis sylvatica Hoffm.
var. alpestris (F. W. Schmidt) Koch

Myosotis (6)

8032 - August 1, 1955
Same place as 8029. ✓
Flowers white

Polygonum bistortoides Pursh

(4) Polygonum bistortoides

8033 - August 1, 1955
Moist depressions and small flats among granite rocks at the Beartooth Mts., immediately adjacent to the Wyoming state line, 25 miles Southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 32. Elev. 10,500 feet. Flowers white.

Polygonum viviparum L.

(10) Smaller Polygonum

8034 - August 1, 1954
Same place as 8029
Plants staminate
and pistillate. Bracts
brownish.

Antennaria umbrinella Rydb.

(7)
Antennaria umbrinella

8035 · August 1, 1955

Same place as 8029.

Anemone ludoviciana Nutt.

(15)

8036 - August 1, 1935
Same place as 8029.
Plants densely tufted,
without rhizomes.

Carex elynoides Kükenth.

det. J. T. Howell

Carex - 1 specimen (1)

8037 - August 1, 1955
Same place as 8029.
Plants in small tufts,
without rhizomes.

Carex phaeocephala Piper

Creek 10 spec. (13)

5038 August 1, 1955
Same place as 8029.
Flowers white, now
all past.

Smelowskya calycina
(Steph.) C. A. Mey.
var. americana (Regel &
Herder) Drury & Rollins

(4)

Smelowskya

8039 - August 2, 1953

In good soil of moist
flat swale on north
slope atop the Beartooth
Mts., 2 4 miles southwest
of Red Lodge, Carbon Co., Mont.
Twps. 9 S., R. 19 E., S. 20.
Elev. 10,000 feet. Heads
golden-yellow to nearly
orange.

Lecidea subumbus DC.

(29)

8040 August 2.

In drying flat swale on north slope atop the Beartooth Mts., 24 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 20. Elev. 10,000 feet. Flowering plants tall past; those of plants in moister places nearby and white.

Caltha leptosepala DC.

Caltha (11)

8041 August 2, 1955.

Same places as 8040. Plants
loosely to be easily lifted.

Carex illota Bailey

(Rock 33)

50 3 August 2, 955

Same place as 5040.
Plants densely tufted.

*Juncus Drummondii* E. Mey.

*Juncus* 35

8L043 August 2, 1955

Same place as 8044.

Flowers light pink purple.

Pedicularis groenlandica.

P. & T.

P. labradorica ? parviflora ?

DUC – August 2, 1935

In fairly grad. rock. 6
gentle, open, granitic
north slopes 2 to 4°
Beartooth Mts., 24 miles
Southwest of Red Lodge,
Carbon Co, Mont. Twp.
9 S., R. 19 E., S. 20. Elev. 8000
feet. Rays blue. Lavender.

Erigeron uniflorus D.C. Eat.

Erigeron uniflorus (22)

5045 - August 2, 1923

Same place as 8040. ✓

Plants shortly rhizomatous, becoming colonial.

Juncus acutiformis Wikstr.

Smaller form. (2D)

6046 - August 3, 1935

Border of moist gravelly flat meadow in north slope of the Beartooth Mts., 2 miles southwest of Red Lodge, Carbon Co., Mont., Twp. 7 S., R. 19 E., S 20. Elev. 10,000 ft. Plants extensively creeping below-ground. Flowers pink-purple

*Trifolium parryi* Gray

Trifolium 34

8047 August 3, 1955

In moist, meadowy flat swale x-mouth slope atop the Beartooth [illegible], 24 miles southwest of Red Lodge, Carbon Co, Mont. T. 7 S., R. 19 E., S 20. Elev. 10,500 feet. Plants vigorously pyramidate, sod-forming stems triangular.

Carex scopulorum Holm

Yosemite (17)

80 48 August 3, 1905
In drying beds 3 & 4 miles
N. E. of small pools in flat
ravine on north slope
atop the Beartooth Mts.,
2 1/2 miles southwest of
Red Lodge, Carbon Co.,
Mont. T. 7 S., R. 19 E.,
Sec. 20. Elev. 10,000 feet.
Plants with short,
slender stolons, tending
to form small mats or
tussocks. Flowers pink-
purple.

Epilobium alpinum L.

Epilobium

8049 - August 3, 1955

Open, gentle, gradual north slope, Alp. the Beartooth Mts., 24 miles southwest of Red Lodge, Carbon Co., Mont. T. 9 S., R. 19 E., S. 20 Elev. 10,000 ft. Bracts chartreuse to yellow.

Castilleja cusickii Greenm.
dupl. det. Marion Ownbey

A.O.L. Cja

8050 - August 3, 1955
Lodgepole area in adjacent moist north slope atop the Beartooth Mts., 2 1/2 miles southwest of Red Lodge, Carbon Co., Mont. T. 9 S., R. 19 E., S. 20. Elev. 10,000 feet. Pinus with a short, stout, branched candle. Needles yellow-green conspicuously black-tipped.

Lennie Lupine Field.

Lennie Lupine (?)

8051-August 3, 1955

Open, gentle, granite north slope atop the Beartooth Mts., overlooking Wyoming Creek, 24 miles southwest of Red Lodge, Carbon Co., Mont., Twp. 9S., R. 19E., S. 20. Elev. about 10,000 feet. Common. Plants creeping, mat-forming.

~~Salix petraea Rydb.~~

Salix arctica Pall.
var. petraea Anderss.
(= S. petrophila Rydb.)

Salix (5)

8052 - August 3, 1955
Same place as 8051.
Plants creeping,
mat-forming, rare,
forming with #8051,
~~S. petrophila~~, and
apparently hybridizing
with and largely
swamped by it.

S.
typical S. arctica var. petraea

L.

Salix arctica Pall.
var. petraea Anderss.,
unusual form.

Salix [illegible] (7)

8053 – August 3, 1955
Same place as 8051.
~~Growing with~~ nos.
8051, ~~S. petrophila~~,
and ~~8052, S.~~.

Salix arctica Pall.
var. petraea Anderss.

Growing with, and intermediate between # 8051, typical S. arctica var. petraea, and 8052, an unusual form of the same taxon.
hybrid (?) Salix

8054 - August 3, 1755
same places as 8051 V
plants typical,
nutlets rhizomes.

Carex capitata L.

First Montana record

Carex (1)

8055 - August 3, 1955

Edge of moist peat swale on north slope atop the Beartooth Mts., 24 miles southwest of Red Lodge, Carbon Co., Mont. T 7 S., R. 19 E., S. 20 - Elev. 10,000 feet. ✓ = lower light yellow. Rare.

Pedicularis oederi Vahl

Pedicularis oederi (1)

8056 - August 4, 1955

Open, gravelly, gravelly turf + loess atop the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. T. 7 S., R. 19 E., S. 19. Elev. about 10,000 feet. Petals faintly achromatic, nearly white, commonly 8, occasionally more. Young fruiting heads twisted.

Dryas octopetala L., sens. lat. (D. crenulata Juz.)

Dryas (8)

8057 August 4, 1955

Same place as 8056. ✓
Leaves firm, evidently
reticulate veiny,
dark green above, thinly
glaucous beneath,
petiolets forming loose
mats.

Salix sadimontana Rydb.

Salix (25)

8058 - August 4, 1955
Open, granitic, fairly moist north slope along Quad Creek at the rim of the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. T. 7 S., R. 19 E., S. 19. Elev. about 10,000 feet. Plants extensively creeping below-ground. Flowers pale creamy, nearly white, occasionally partly pinkish-tinted. Buds suberect; new flowers ascending; older flowers reflexed.
Trifolium T. aydenii Porter

Trifolium (22)

8059 - August 24, 1955

In coarse, granitic-derived
relatively stable
sediment - facing talus
at the rim of the Beartooth
Mts., just west of Quad
Creek, 23 miles southwest
of Red Lodge, Carbon
Co., Mont. Twp. 9 S., R. 19 E.,
S. 19. Elev. about 10,000 feet.
Plants fibrous-rooted, with
a stout, sparingly branched
caudex. Heads yellow,
nodding, mostly 1 or 2,

Species compatible: Gray
ex Hemsley (Greene) Harrington
: Montana material for
the species.

Lewis

806 August 4, 1933
Moist north slopes
along Quad Creek at the
rim of the Beartooth Mts.,
23 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9S, R. 19E.,
S. 19. Elev. about 10,000
feet.

Ranunculus eschscholtzii
Schlecht.
var. eschscholtzii

Ranunculus (9)

8061 - August 4, 1955

Moist places and seepage areas along Quad Creek, at the rim of the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 19. Elev. about 10,000 feet. Leaves tufted, deep-seated rhizome. Stamens 6.

Juncus confusianus

Boivin

8063 August 4, 1901
Open fairly moist
mountain slopes along
Quad Creek, at the head
of the Rea, Costin Mts.;
23 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9S., R. 19E.,
S. 17. Elev. about 10,000
feet. Plants densely
tufted. Flowers 6.

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Juncus parryi Engelm.

Juncus (1)

8063 - August 4, 1910.

Open, dry meadowland
near thereim of the
Beartooth Mts., near
Quad Creek, 23 miles
southwest of Red
Lodge, Carbon Co., Mont.
Twp. 6S., R. 19E., S. 19.
Elev. about 10,000 feet.
Flowers light yellow-
green.

Zygadenus elegans Pursh

5067 - July 4, 1931

Open, granitic north slopes along Pass Creek at the rim of the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 7 S., R. 19 E., S. 19. Elev. 10,000 feet. Pistillate plants with dirty greenish bracts. Some staminate plants similar, others with basally dark, otherwise shining white bract-tips.

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Antennaria umbrinella

Rydb.

(10)

Antennaria alpina

5265 - August 4, 1935.

Open, gravelly, granitic gentle slopes atop the Beartooth Mts. near Quad Creek, 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 19. Elev. 10,000 feet. Plants mat-forming, apparently without a taproot. Leaves prickly. Petals white with reddish dots.

[illegible]

Potentilla (4)

5060 August 4, 1955
Low shrub about 1 dm.
tall on open, gentle,
granitic north slopes
at the rim of the Beartooth
Mts. near Quad Creek,
23 miles southwest of
Red Lodge, Carbon Co., Mont.
Twp. 9S., R. 19E., S. 19,
Elev. about 10 000 feet. Corolla
basally white, distally
greenish-tinted.

Phyllodoce glanduliflora
(Hook.) Coville

Phyllodoce (4)

8067 - August 4, 1955

Open, gentle granitic slopes at the rim of the Beartooth Mts. near Quad Creek, 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp 9S., R. 19E., S. 19. Elev. about 10,000 feet. Flowers blue with a yellowish eye.

Myosotis sylvatica Hoffm. var. alpestris (F. W. Schmidt) Koch

Myosotis (1)

8068 - August 3, 1955

Open, boggy gentle slope just west of Quad Creek, atop the Bear-Tooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R 19 E., S. 19. Elev. about 10,000 ft. Plants creeping, more or less mat-forming, now mostly in fruit. Leaves glaucous beneath. Flowers pink, very broadly campanulate.

Kalmia polifolia Wang. var. microphylla (Hook.) Rehder

Kalmia

8069-August 5, 1955

Same place as 8068.

Trollius Laxus Salisb.

8073 August 25, 1955
- same place as 8068.
Corolla pink; carpels red.

Sedum rhodanthum Gray

Sedum (10)

80 71 - August 5, 1955

Open, gentle, grassy slopes just west of Quad Creek atop the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont., T. 7 S., R. 19 E., S. 19. Elev. about 10,000 feet.

Rays lavender-purple.

Aster foliaceus Lindl. var. apricus Gray

Aster foliaceus apricus

8072 - August 15, 1955
Same plaques 8071.
Petals minute, yellow

Subtabulata pseudensa.

✓

Subtabulata (4)

D 73 - August 15, 1905

Moist places at edge of Quad Creek, at top of the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 19. Elev. about 10,000 feet. Flowers deep pink.

Epilobium alpinum L. var. nutans (Hornem.) Hook.

Epilobium (16)

5074 - August 5, 1937
Moist soil along
Quad Creek, atop the
Beartooth Mts., 23
miles southwest of Red
Lodge, Carbon Co., Mont.
Twp. 9S., R. 19E., S. 19.
Elev. about 10,000 feet
Heads yellow. Rays
about 9-12.

Arnica mollis Hook.

Arnica mollis (3)

8075 - August 5, 1954
Open, rather dry,
gentle to sanitic slopes
east of Quad Creek,
top the Beartooth Mts.,
23 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9S., R. 19E., S. da
Elev. about 10,200 ft. E.
Plants rhizomatously
spreading, 2, 3, or 4 inches
wide or less, "spotted",
Flowers blue, erect or sub-
erect in bud, more or less nod-
ding at anthesis, of Gilia age.
Campanula rotundifolia L.
alpine acaulescent form.

Campanula rot.

8076 - August 16, 1955
Open, rocky slopes at
the rim of the Beartooth
Mts., overlooking Quad
Creek from the north,
23 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9 S., R. 19 E.,
S. 20. Elev. about 10,200
feet. Flowers light yellow.

Eriogonum polyphyllum Small

Eriogonum (22)

8077. August 6, 1905
Open, dry swale at the rim of the Beartooth Mts., 23 miles southwest of Red Lodge, Carbon Co, Mont.
Twp. 9S., R. 19E., S. 20
Elev. about 10,000 feet.
Flowers ochroleucous.

Eriogonum subalpinum
Greene

Eriogonum

8378. August 6, 1955
Same place as 8076.
Flowers ochro-lucous

Eriogonum ovalifolium
Nutt.

(7) Eriogonum ovalifolium

SD 75. August 6, 1935
Open, loose, rocky
slopes just under
the rim of the Sar-
tooth Mts. overlooking
Quad Creek from the north,
23 miles southwest of
Red Lodge, Carbon Co.,
Mont. T. 7 S., R. 19 E.,
S. 20. Elev. about 10,000
feet. Flowers white

Cryptanthe mubigena (Kell.)
Payson.

6080 - August 2, 1955

Open, gentle slopes at the rim of the Beartooth Mts., overlooking Quad Creek from the north, 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 20. Elev. about 10,000 feet. Inflorescence yellow or yellowish at anthesis, the color but more to the calyx and corolla than to the mostly dull green bracts.

Castilleja nivea Pennell & Ownbey
Orig. det. Marion Ownbey

Castilleja (35)

8081 - [illegible]

Same place as 8050. ✓

Rays blue - [illegible]

or perish to nearly white.

Erigeron ochroleucus Nutt.

var. scribneri (Canby) Crong.

35 [illegible]

F 0 8 2 - August 6, 1953
Same place as 8080.
Flowers blue.

Eritrichium nanum (Vill.)
Schrad.
var. elongatum (Rydb.)
Crong.

(3) Eritrichium nanum

#083 Carex [illegible]

Open, dry swale at the rim of the Beartooth Mts., overlooking Quad Creek from the north, 2 3 miles southwest of Red Lodge, Carbon Co, Mont. T 5 sp. 9 S, R 19 E., S. 20. Elev about 10,000 feet. Plants in small tufts without long, creeping rhizomes.

Carex phaeocephala Piper

Carex

Open, loose, rocky-gravelly slopes just under the rim of the Beartooth Mts., overlooking Quad Creek from the north, 23 miles southwest of Red Lodge, Carbon Co., Mont. Twp. 9 S., R. 19 E., S. 20 Elev. about 10,000 feet. Plants taprooted, forming dense mats. Leaves pungent. Flowers purple.

Astragalus leptaleus Wats.

(1) Astragalus leptaleus

8085 – august 6, 1895
same place as 8084.
Flamus yellow

Lesquerella alpina (Nutt.)
Wats.
var. alpina (spathulata)

4715 Lesquerella (18)

16

237 3990

237

1620

1422 198